Colour television

21PT2324

Operating instruction

PHILIPS

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IMPORTANT

Before you begin:

Make sure your package includes the following items:TV and mains cord, remote control, Instruction manual, antenna cable (optional) and Coaxial cable (optional).

Attention:

1. Read your manual first – your Philips TV comes with a well-designed remote control and onscreen display to ensure your TV is easy to operate.

2. The tips provided in this manual will save you time and money as charges for TV installation and adjustments of customer controls are not covered under the warranty.

3. For information outside of this manual, such as sales locations and other Philips products, please visit www.philips.com which will automatically link you to your local Philips website.

4. Please refer to the 'Troubleshooting Tips'on page 11 before calling for service.

5. In case of a need to call for service, we recommend you to call from your room where your TV is located and have on hand your remote control, warranty card, TV model and serial number.

6 Do not discard packaging materials:

- without thorough inspection for parts and that accessories that may be packed separately inside the carton.
- during the warranty period should you need to exchange the set.

Recycling:

The materials used in your set are either reusable or can be recycled. To minimise environmental waste, specialist companies collect used appliances and dismantle them after retrieving any materials that can be used again (ask your dealer for further details).

Disclaimer: Graphics in this manual are far illustratian purpase and may nat represent the actual product

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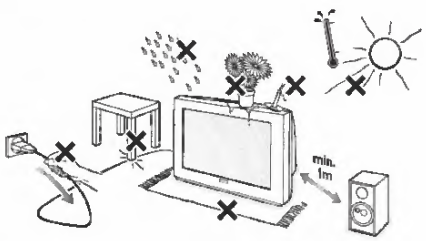
Safety information

- Disconnect mains plug when :
  - the indicator light below the TV screen is flashing continuously.
  - a bright white line is displayed across the screen.
  - there is a lightning storm.
  - the set is left unattended for a prolonged period of time.
- cleaning the TV screen. Never use abrasive cleaning agents. Use a slight damp chamois leather or soft cloth.
- No naked flame sources, such as lighted candles, should be placed on top of the TV or in the vicinity.
- Do not place your TV set under direct sunlight or heat.
- Leave at least 10 cm around each side of TV set to allow for proper ventilation.
- Avoid placing your set (e.g. near the window) where it is likely to be exposed to rain or water.
- No objects filled with liquids should be placed on top the TV so as to avoid dripping or splashing of liquids on the set.



Useful information

- Do not leave your set on standby mode for a prolonged period of time. Switch off set to allow it to be demagnetised. A demagnetised set supports good picture quality.
- Do not shift or move the set around when it is switched on. Uneveness in colour in some parts of the screen may occur.
- Never attempt to repair a defective TV yourself. Always consult a skilled service personnel.

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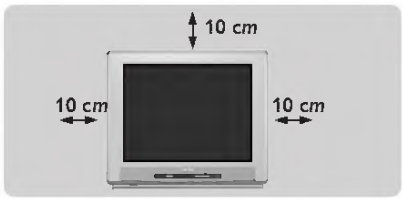
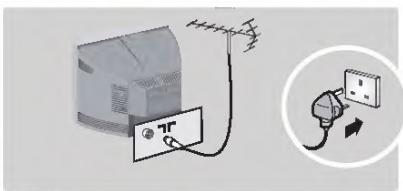
Installing your television set

Positioning the television set



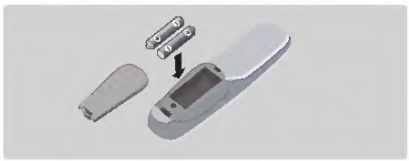
Place your TV on a solid, stable surface, leaving a space of at least 10 cm around the appliance.

Connections



- Insert the aerial plug into the x socket at the rear of the set.
  If you are using an indoor aerial, reception may be difficult in certain conditions. You can improve reception by rotating the aerial. If the reception remains poor, you will need to use an external aerial.
- Insert the mains plug into a wall socket.
  Diagram may differ from the actual plug.

Remote control



Insert the two R6-type batteries (supplied) making sure that they are the right way round.
The batteries supplied with this appliance do not contain mercury or nickel cadmium.
If you have access to a recycling facility, please do not discard your used batteries (if in doubt, consult your dealer).

Switching on

To switch on the set, press the on/off key.
A red indicator means that the television is on standby mode. Refer to the next page on 'Remote Control keys' for the various keys that you could use to switch on the set An indicator light will flash when it is receiving signal from the remote control.

The keys on the TV set

The television set has 4 keys which are located at the front.

The VOLUME – or + key is used to adjust the sound levels. The CHANNEL ∧ or ∨ key is used to select channels.
To access or exit the main menu, press down the VOLUME – and + keys, simultaneously.
To select an item in the main menu, press the CHANNEL ∧ or ∨ key.
To select an adjustment, press down the VOLUME – or + key.

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Remote control keys

Personal Zapping
You can surf up to 10 personal channels for each key (p. 9)

Sleeptimer
Selects a period of time after which the TV will go into standby mode automatically.

Add Personal Zapping list
Adds and stores channels into Personal Zapping list (p. 9)

Smart Sound
Used to access a series of stored settings: Theatre, Music, Voice or Personal.

Menu
To call up or exits menus.

Cursor
These 4 keys are used to move around the menus or provide direct access to the different picture formats (p. 7-9)

Volume
To adjust the sound level.

Digit keys
Direct access to the channels. For a 2-digit channel, enter the 2nd digit before the dash disappears.

Alternate channel
Switched between the current and the previous channel.

Standby
Lets you place the TV set on standby. To turn on the TV, press CH + or –, ⏻ ,AV,A/CH or digit keys.

AV channel selection
Press several times to select AV1 and FRONT.

Delete Personal Zapping list
Deletes stored channels from Personal Zapping list (p. 9)

Smart Picture
Used to access a series of stored settings: DVD/VCD, Rich, Natural, Soft, Multimedia or Personal.

No function

Mute
To mute or restore sound.

Channel selection
To access the next or previous channel. The number and sound mode are displayed for a few moments whenever you select a new channel.

On screen display
To display/clear the on screen information. Press the key for 5 seconds to activate permanent display of channel number. This key is also used to exit from the menu.

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Language

When there is no signal input to the TV, you may encounter instability of the screen display. In this instance, please use the key to select an AV channel.

The **Language** feature is used to change the display language for menus.

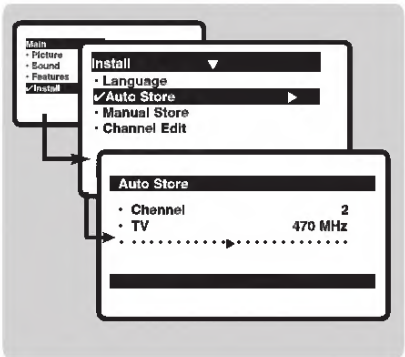
1. Press the key.
2. With the cursor, select the **Install** menu and follow by the **Language**.
3. Use the key to select a language of your choice.
4. To quit the menus, press .

Auto Store

This menu is used to store all available channels automatically.

1. Press the key.
2. With the cursor, select the **Install** menu and follow by the **Auto Store**.

All the available TV channels will be stored. This operation takes a few minutes. The display shows the progress of the search and the number of channels found.
At the end of the search, the menu disappears.
To exit or interrupt the search, press .
If no channels are found, consult the possible solutions on p. 11.



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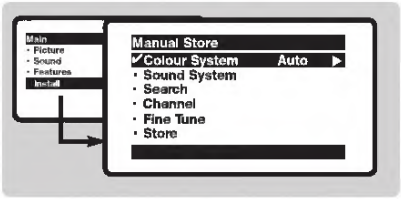
Manual Store

This menu is used to store channels one at a time.

1. Press the MENU key.
2. With the cursor, select the **Install** menu and follow by the **Manual Store**.

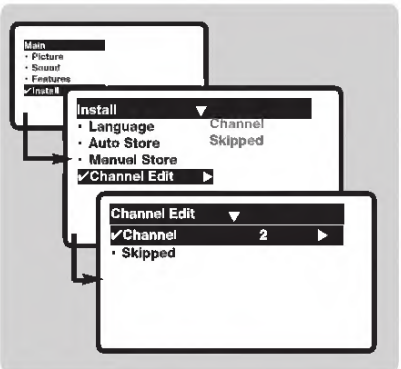


3. **Colour System:** use the ◄ or ► key to select the desired colour system; **Auto, PAL, Secam D/K, NTSC 3.58** or **NTSC 4.43**.
4. **Sound System:** use the ◄ or ► key to select the desired sound system; **Auto, BG, I, DK** or **M**.
5. **Search:** Press MENU. The search starts. Once a channel is found, the scanning stops. Go to the next step.
   If no picture is found, consult the possible solutions (p. 14)
6. **Channel:** enter the required channel with the ◄, ► or digit keys.
7. **Fine Tune:** if the reception is not satisfactory, adjust using the ◄ or ► keys.
8. **Store:** Press ► . The channel is stored.
9. Repeat steps 3 to 4 for each channel you wish to store.
10. To quit the menus, press ⊡ .

Channel edit

This feature allows you to skip or edit channels which have bad or weak TV signal or channels you do not watch often.

Once a channel is skipped, you cannot have access to it by the Channel + or – key. You can only access the channels by the digit (0-9) keys.



1. Press the MENU key. The **Main menu** is displayed on the screen.
2. With the cursor, select the **Install** menu followed by the **Channel Edit** menu.
3. Enter into the menu and select the channel number you wish to skip by the digit keys.
4. Then use the ▼ key to select **Skipped**. Use the ► key to select **On**.
5. Repeat steps 3 and 4 for each channel you wish to skip.
6. To quit the menus, press ⊡ .

To restore skipped channels

1. Repeat steps 1 to 3 above.
2. Use the ▼ key to select **Skipped** and the ► key to select **Off**.
3. Repeat steps 1 and 2 for each channel you wish to skip.
4. To quit the menus, press ⊡ .

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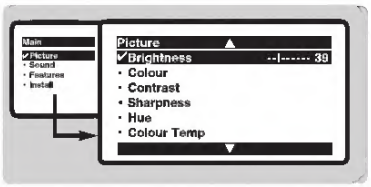
Picture settings

1. Press MENU then ▶. The **Picture** menu is displayed:



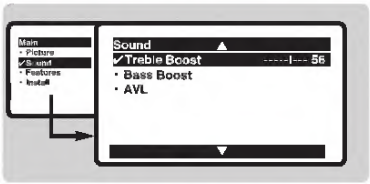
2. Use the ▲ or ▼ keys to select a setting and the ◀ or ▶ keys to adjust. *Note: during the picture adjustment, only the selected line remains displayed. Press ◀ or ▼ to display the menu again.*
3. Press ⏻ to exit.

Description of the adjustments:

- **Brightness:** this changes picture brillance.
- **Colour:** this changes the intensity of the colour.
- **Contrast:** this changes the difference between the light and dark tones.
- **Sharpness:** this changes the picture definition.
- **Hue:** this adjusts the skin colour tone.
- **Colour Temp.:** this changes the colour rendering: Cold(bluer), Normal(balanced) or Warm(redder).
- **NR:** attenuates picture noise (snow) in difficult reception conditions.
- **Contrast +:** automatic adjustment of the picture contrast which permanently sets the darkest part of the picture black.

Sound settings

1. Press MENU, select **Sound** (▼) and press ▶. The **Sound** menu is displayed.



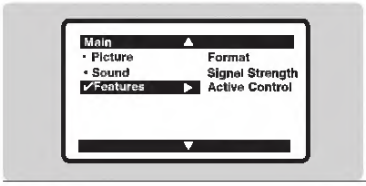
2. Use the ▲ or ▼ key to select a setting and the ◀ or ▶ key to adjust.
3. Press ⏻ to exit.

Description of the adjustments:

- **Treble Boost:** this alters the high frequency sounds.
- **Bass Boost:** this alters the low frequency sounds.
- **AVL** (Automatic Volume Leveller): this is used to limit increases in sound, especially on channel change or advertising slots.

Features settings

1. Press MENU, select **Features** (▼) and press ▶. The **Features** menu is displayed:



Description of the features:

- **Format:** see explanation on the next page.
- **Signal Strength** : see explanation on the next page.
- **Active Control** : see explanation on the next page.

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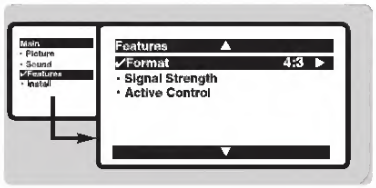
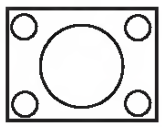
Format

This feature enhances your viewing pleasure by providing you with a choice of two picture formats:- **4:3** and **Expand 4:3**.

1. Press , use the or key to select **Features** and press the key. The **Features** menu is displayed.
2. Use the key to select **Format** and press the key to select **4:3** or **Expand 4:3**.
3. Press the key to exit.

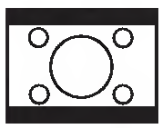


Description of function:
4:3 – select this format if you want to display a conventional picture using the full surface of the screen.

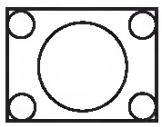


4:3

Expand 4:3 – select this format if you want to expand pictures transmitted in a 'letterbox' format (black horizontal bars at the top and bottom of the screen) to fill up the entire screen.



Letterbox

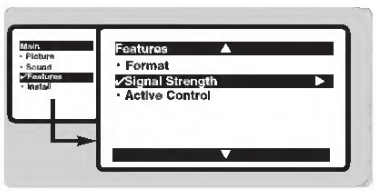


Expand 4:3

Signal Strength

This feature display the signal strength level at the bottom of the screen. Select the option **ON** to activate the display each time you switch to a new channel.

1. Press , use the or key to select **Features** and press the key. The **Features** menu is displayed.



2. Use the or key to select **Signal Strength** and press the key to select **On**.
3. Press the key to exit.

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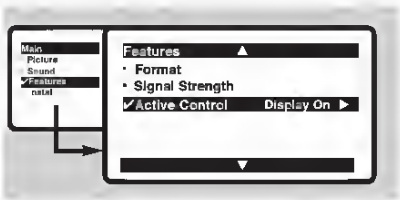
Active Control

The Active Control monitors and adjusts incoming video signals to help provide the best picture quality. When you choose to turn the Active Control to On or Display On, the Brightness, Contrast, Sharpness, Contrast+ and NR (noise reduction) features are controlled automatically. Active Control adjusts these picture settings continuously and automatically.



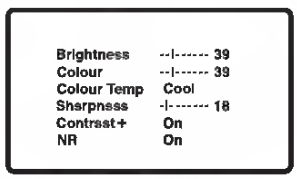
1. Enter Features menu as described in "Features settings" on the previous page.
2. Use the key to select Active Control and press the key to select **Off, On** or **Display On.**
3. Press the key to exit.

Description of option:

Off: the Active Control will not be activated.

On: the Active Control will work to give the viewer the best possible picture, but will not display the monitoring screen when channels are changed.

Display On: an Active Control monitoring screen will be shown for a few seconds whenever a channel is changed.



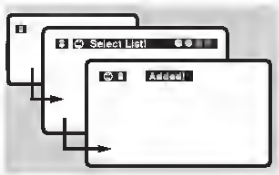
Active Control Monitoring Screen

Personal Zapping

A list or series of favourite TV programs can be selected and stored in the 4 coloured keys with the Personal Zapping feature. With this feature you can easily viewed up to a total of 10 preferred channels for each coloured key.

To add channels:

1. Select a channel with the digit keys.
2. Press to display list.
3. Press your favourite colour key to store the channel in step 1.
4. Repeat steps 1 to 3 to store more channels.
5. Press to exit.



To delete channels:

1. Select and press a colour key that has stored channels repeatedly to select the channel you want to delete.
2. Press to display list.
3. Press to remove channel.
4. Repeat steps 1 to 3 delete more channels.
5. Press to exit.

To view channels:

Select and press a colour key that has stored channels repeatedly to select the channel you want to view.

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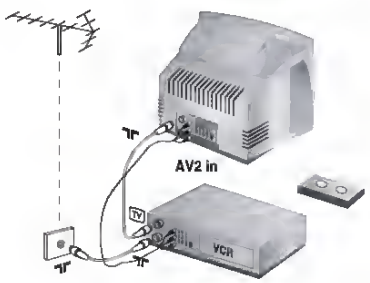
Connecting peripheral equipment

The television has 2 external sockets situated at the back of the set (AV1 in and AV2 out).
The AV1 in socket has audio and video inputs.
The AV2 out socket has audio and video outputs.

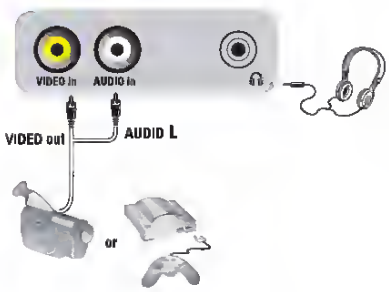
Video recorder



1. Connect the TV's yellow and white (AV1 in) jacks to the corresponding Video and Audio jacks on the player.
2. Connect the TV's white AUDIO IN jacks to the corresponding AUDIO OUT jacks on the player. Match the cable colour to the jacks' colour. The white jack is the Left (Mono) audio channel.
3. Turn on the TV and VCR player. Set the TV to AV1. You can now play your video cassette tape.

Connection is also possible via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign a channel number 0. Select channel 0 to playback.

Side connections



Audio-Video connections

1. Connect the TV's yellow and white jacks to the corresponding Video and Audio jacks on the equipment.
2. Connect the TV's white AUDIO IN jacks to the corresponding AUDIO OUT jacks on the player. Match the cable colour to the jacks' colour. The white jack is the Left (Mono) audio channel.
3. Turn on the player. Set the TV to FRONT. You can now play your equipment.

Headphone connections

When headphones are connected, the sound on the TV set will be cut. The VOL + or – keys are used to adjust the volume level.
The headphone impedance must be between 32 and600 Ohms.

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Tips

Poor reception

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see Fine Tuning (p. 6) or modify the orientation of the outside aerial. Does your antenna enable you to receive broadcasts in this frequency range (UHF or VHF band)? In the event of difficult reception (snowy picture) switch the **NR** on the **Picture** menu to **ON** (p. 7).

No picture

If the television does not switch on, press the standby key (located on the remote control) twice. Have you connected the aerial socket properly? Have you chosen the right system? (p. 6). Poorly connected aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned).
Check all connections.

No sound

If on certain channels you receive a picture but no sound, this means that you do not have the correct TV system.
Modify the System setting (p. 6).

Colour patches on screen

Switch off the TV by the mains power button and wait for about 20 minutes before switching on again.

Good picture but no sound

Try to increase the volume level. Check that the sound is not set to "mute". If it is, press the key to restore the sound.

Good sound but poor colour or no picture

Try to increase the contrast and brightness setting.

Snowish picture and noise

Check antenna connection at the rear of the TV.

Horizontal dotted lines

Possible electrical interference e.g. hairdryer, vacuum cleaner, etc. Switch off the appliances.

Double or "Ghost" images

Possible poor positioning of antenna. Using a high directional antenna may improve reception.

Peripheral equipment gives a black and white picture

You have not selected the socket connection to the right channel with the key: for example, AV1 in socket connection should select channel AV1 to playback. To play a video cassette, check that it has been recorded under the same standard (PAL, SECAM, NTSC) which can be replayed by the video recorder.

The remote control does not work

Check that the batteries are the right way round and there is no obstruction between the remote control and the TV.
If the light indicator on the set no longer flashes when you use the remote control, replace the batteries.

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Glossary

4:3
Refers to the ration between the length and the height of the screen. Wide screen televisions have a ration of 16:9 while conventional televisions have a ratio of 4:3.

4:3 Expand
The images recorded in "letterbox" format are expanded to fill the entire screen and the black horizontal bars at the top and bottom are removed.

Active Control
Is a unique, intelligent, and proactive control system, which measures and analyzes the incoming analog signal 60 times per second to automatically adjust settings for optimal picture quality. It also uses a sensor to adjust for ambient room light; when the room gets brighter, so does the picture.

Contrast+
enhances the darker portions of the picture to improve its picture quality.

Personal Zapping
A Philips trade marked feature which allows any combination of favourite teletext pages or TV channels to be stored in the coloured Favourite Channels/Teletext keys. A total of 10 preferred channels/teletext pages of the same subject or user can be stored in each coloured key.

System
Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, NTSC and SECAM. The system setting (p. 6) is used to select these different standards.

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Specification

Product type
21PT2324

Picture
- Picture screen diameter: 52S mm
- Visible screen size: 510 mm
- Smart Picture Modes
- Brightness Control
- Colour Control
- Contrast Control
- Sharpness Control
- Colour Temperature Control
- Contrast Plus
- Noise Reduction
- Active Control
- Signal Strength Indicator

Sound
- Sound output: 1 x 4 W
- Loudspeakers: Full range
- Smart Sound Modes
- Auto Volume Leveller

Reception
- Tuning system: PLL tuning
- Tuner: UV, S and Hyperband (Pal Multisystem)
- Channel Selection: 100 presets
- Aerial input: 75 ohm coaxial
- TV Systems off-air: NTSC M (3.5B-4.5), NTSC (4.43-5.5), NTSC (4.43-6.5), NTSC 3.5B, NTSC 4.43, Pal BG, Pal D/K, Pal I, SECAM B/G, SECAM D/K, SECAM K1
- Video playback: NTSC 4.43/3.5B, NTSC Playback, PAL 60
- TV Systems: PAL-Multi AP
- Sound Systems: Mono

Connectors
- Side: Headphone out (3.5 mm)
  Mono Audio/Video input
- Rear: Mono Audio/Video input
  Mono Audio/Video output

Ease of use
- Multi language on screen display
- Personal Zapping
- Alternate channel
- Sleeptimer

Size and weight
- Set dimensions: L x D x H mm
  (522 x 479 x 461) mm
- Net weight: 23.2 kg

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